

## ABSTRACT OF THE DISCLOSURE

A free walking beam that uses the principles of the Stirling cycle to drive a piston reciprocally through a housing cylinder to pivot alternately around a pair of parallel power output shafts to provide a high torque means of generating mechanical energy. The heat differential required for the Stirling cycle is provided by an external heat source such as ambient heat, solar-heated fluid, or recovered waste heat that is applied to the lower end of the housing cylinder when in a substantially vertical position that elevates the piston to the opposing end thereof to create an imbalanced state thereby initiating the rotational freefall of the superior end of the housing cylinder which drives the power output shaft on which it is pivoting. The process is then repeated with the other power output shaft.